



**U.S. ENVIRONMENTAL
PROTECTION
AGENCY**

REGION X - ALASKA, IDAHO, OREGON and WASHINGTON

3/22/79

Dear Pat Metz:

Attached is the Notice to Construct and Preliminary Determination, along with a copy of the Public Voucher for Advertising.

This Notice is to be published in the Fairbanks News-Miner this Saturday and must be received by the newspaper's office by noon (12:00pm) Friday, March 23, 1979. We would appreciate it if you could hand-carry these copies to the newspaper in time to meet this deadline (March 23, 1979) and also inform them that the original Public Voucher for Advertising has been sent and they should be receiving it shortly.

Thank you very much,

151
Kim Wilson

(206) 442-1270

*P.S. as discussed with
Mike Johnston*

1200 Sixth Avenue
Seattle, Washington 98101

USEPA REG



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265-6533
907-277-5637



**U.S. ENVIRONMENTAL
PROTECTION
AGENCY**

REGION X - ALASKA, IDAHO, OREGON and WASHINGTON

3/22/79

Dear Bob Chivvis:

Attached is the Notice to Construct and Preliminary Determination, along with a copy of the Public Voucher for Advertising.

This Notice is to be published in the Anchorage Times this Saturday and must be received by the newspaper's office by noon (12:00pm) Friday, March 23, 1979. We would appreciate it if you could hand-carry these copies to the newspaper in time to meet this deadline (March 23, 1979) and also inform them that the original Public Voucher for Advertising has been sent and they should be receiving it shortly.

Thank you very much,

Kim Wilson
(206) 442-1270

1200 Sixth Avenue
Seattle, Washington 98101

U. S. ENVIRONMENTAL PROTECTION AGENCY
REGION X
SEATTLE, WASHINGTON 98101

NOTICE OF APPLICATION TO CONSTRUCT AND PRELIMINARY DETERMINATION
ATLANTIC RICHFIELD COMPANY/SOHIO PETROLEUM COMPANY

Notice is hereby given that the Atlantic Richfield Company and the SOHIO Petroleum Company (ARCO/SOHIO) have filed with the Environmental Protection Agency (EPA) an application to add eleven natural gas fired turbines to the oil field at Prudhoe Bay, Alaska pursuant to the Federal Clean Air Act and EPA's regulation for prevention of significant air quality deterioration (PSD). EPA regulations require the pre-construction review and approval of certain categories of new or modified industrial sources of air pollution to assure that a proposed source's emissions will not cause a violation of air quality limits.

The proposed gas turbine addition will increase the power available at the field from 600,000 horsepower to approximately 1,000,000 horsepower.

PRELIMINARY DETERMINATION

EPA has completed a preliminary analysis of the information submitted by ARCO/SOHIO and has tentatively determined that the modifications to the plant will not cause significant deterioration of air quality and will employ best available control technology (BACT) to minimize emissions. EPA therefore, proposes to issue a Notice of Approval to add the eleven natural gas fired turbines.

NON-GUIDELINE MODEL

The Clean Air Act requires that the use of an air quality model not specifically approved by EPA for use in the PSD process must be subject to public comment and that opportunity for public hearing be provided. The MLTCRS model is not identified in the EPA Guideline of Air Quality Models as an approved model. It was used in the ARCO/SOHIO air quality analysis to identify the days with the worst case meteorological conditions for short term impacts. Once these "worst case" days were identified, a Guideline approved model (Texas Episodic Model) was used to estimate the short term impacts of carbon monoxide and hydrocarbons. To establish the credibility of the MLTCRS model, a comparison test with the Guideline approved RAM model was conducted using the procedures described in the EPA Workbook for Comparison of Air Quality Models.

The test showed that the MLTCRS model was comparable to RAM for the Prudhoe Bay situation. EPA therefore proposes to accept MLTCRS as an appropriate model for the Prudhoe Bay situation.

PUBLIC COMMENT

An analysis document supporting the preliminary determination of permit approval and the use of the non-guideline model has been prepared by EPA and is available for review at:

EPA, Region X
Regional Library, 11th Floor
1200 Sixth Avenue
Seattle, Washington 98101

This document, together with the information submitted by the applicant, will also be available for public inspection at the following locations:

EPA, Anchorage Operation Office
701 'C' Street, Federal Bldg. Rm E535
Anchorage, Alaska 98501

State of Alaska
Department of Environmental Conservation
Pouch O
Juneau, Alaska 99811

Fairbanks North Star Borough Regional Library
1215 Cowles
Fairbanks, Alaska

Z-J Loussac Library
427 F
Anchorage, Alaska

Interested persons are invited to submit for EPA's consideration written comments concerning the proposed project. To be most effective, comments should address air quality considerations and include support materials where available. Comments should be sent to the Regional Administrator, EPA Regions X, 1200 Sixth Avenue, Seattle, Washington 98101; Attention: Mr. Michael Johnston, and will be accepted for a period of 30 calendar days from the date of publication of this notice. Comments will be made available for inspection at the above listed locations.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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A copy of EPA's final determination regarding the proposed modification (to be completed after close of the comment period) will be filed for inspection at the above listed locations.

151
Donald P. Dubois
Regional Administrator

MAR 24 1979

To be Published

EPA Form 1320-1 (12-70)		CONCURRENCES					
SYMBOL	MMJOHNSTON. JBOOKSTON. HGEREN.	REED	COATE				
SURNAME							
DATE	3.19.79	3/19	3/19				